

Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about

Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment that is subject to change. Fish passage data are also collected from a variety of agencies and sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy, completeness, or the results obtained from use of the data. WDFW assumes no liability for the data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently
 known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of
 data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: https://wdfw.wa.gov/publications/02061
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

NFB = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q**_{fp} = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

WDFW Fish Passage and Diversion Screening Inventory Database

Site Description Report

933616	Project	WSDOT		☐ Mitigated				
Geographic Coordinate	es	Waterboo	dy					
Latitude (WGS 84):	46.998481	Stream:		unnamed				
Longitude (WGS 84):	-123.456506	Tributary	/ To:	Wenzel SI				
East (NAD 83 HARN):	902,884.0	WRIA:		22				
North (NAD 83 HARN)	621,055.2	River Mi	le:	-999.99				
		Fish Use	e Potentia	I: Yes				
General Location		FUP Cri	teria:	Physical				
Road Name:	US 12	Owner						
Mile Post:	17.56	Type:	State					
County:	Grays Harbor	Name:	Washing	ton State Department				
WDFW Region:	6		of Trans					
PI Species								
☐ Sockeye	☐ Chinook		✓ Sea	Run Cutthroat				
☐ Pink	✓ Coho		✓ Resi	dent Trout				
☐ Chum	✓ Steelhead	I	☐ Bull	Trout				
Associated Features								
✓ Culvert	☐ Dam	☐ Natural Ba	ırrier	☐ Diversion				
\square Non-Culvert Xing	☐ Other	\square Fishway						
Location/Directions								
EB Hash Marks - 46.998								
WB Hash Marks - 46.99	8815N, 123.456423	VV						
Site Comments	Site Comments							

11/1/2021

These data represent a snapshot of the Washington Department of Fish and Wildlife's current records. Due to the ongoing nature of assessment and inventory of these features, these data may not accurately represent conditions on the ground, and are subject to change.

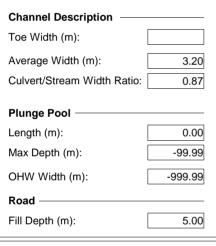
WDFW Fish Passage and Diversion Screening Inventory Database

Level A Culvert Assessment Report

Site ID:	933616				
Latitude:	46.998481	Stream:	unnamed	WRIA:	22
Longitude:	-123.456506	Tributary To:	Wenzel SI	Fish Use Potential:	Yes

Data Source:		Washington Department of Fish and Wildlife							
	Field Crew:	Leigh;Phinney	Review Date:	5/18/2016					

Culvert Details						Level A Parameters							
<u>ID</u>	<u>Shape</u>	<u>Material</u>	<u>Span</u>	<u>Rise</u>	<u>Length</u>	<u>WDIC</u>	<u>Apron</u>	WSDrop	Location	Countersunk	Backwater	Slope (%)	<u>Sediment</u>
1.2	RND	CST	1.37	1.37	51.10	0.67	NO	0.00		No	Yes	0.37	
2.2	RND	CST	1.37	1.37	50.80	0.71	NO	0.00		No	Yes	0.28	
All	dimensio	ns in mete	rs										





Assessment Results		Tidal Influence:		Tidegate Present:		No	
Barrier:	Yes	Passability (%):	67	Method:		Level B	ı
Reason:	Depth	Fishway Present:	No	Recheck:			

Comments

Hydraulic Analysis was completed by P Leigh using FishXing (8/18/16).

Potential Habitat Gain

Survey Type:RSFSSpawning (sq m):79Significant Reach:YesRearing (sq m):7,763

Length (m): 8,796 **PI Total** 14.04

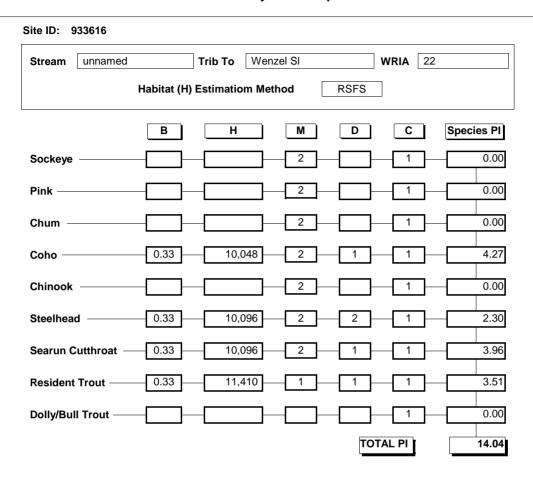
WDFW Fish Passage and Diversion Screening Inventory Database Level B Culvert Assessment Report

Site ID: 933616								
Reference Point Elevation (m): 100.00 Location: USIE								
Drainage Basin Basin Area (sq mi): 0.66 Basin Precipitation (in): 65.90								
Culvert Elevations								
Culvert ID Corrugation USIE (m) USCBE (m) DSIE (m) DSCBE (m) Sediment 1.2 0.5"x2.66" 100.00 100.00 99.82 99.82 99.82 2.2 0.5"x2.66" 99.95 99.95 99.82 99.82 99.82								
Downstream Control								
X-Section								
Station Top LB Toe LB Bed 1 Bed 2 Bed 3 Toe RB Top RB								
Distance (m) 0.00 1.15 1.85 3.05 3.60 3.75 5.80								
Elevation (m) 100.60 100.06 99.96 99.94 99.89 100.00 100.27 Substrate								
Downstream Control Water Surface Elevation (m): 100.24								
Downstream Control OHW Surface Elevation (m): -999.99								
Downstream of Control								
Water Surface Elevation (m): 100.23 Channel Dominant Substrate:								
Distance Downstream (m):								
Results Velocity (m/sec): 0.41 Depth (m): 0.17								

WDFW Fish Passage and Diversion Screening Inventory Database Habitat Survey Summary Report

Site ID: 933616			
Latitude: 46.998481 Longitude	ude: -123.456	506 WRIA:	22
Stream: unnamed Tributa	ry To: Wenzel SI	PI Total:	14.04
Survey Type RSFS			
Spreadsheet File(s):			
Digital GF: US 12 - MP 17.56 - 933616 933616Maps.pdf, 04-933616_MS_pg1 through 19-933616_TribD2.xlsx			
Downstream Survey			
Date: 4/5/2017 Crew: Leigh;Phir	nney	ngth (m): 2,167	
Downstream Comments:			
Walked and verified 1605 meters, got grass, willow, and spirea wetlands. All Cr during winter flows. Length map me	observations are cons		
Upstream Survey Date: 3/17/2021 Crew: Aram Upstream Comments: Heavily modified ditch with low therma fluctuates between 0 & 2%. Avg gradie	I & low instream cover		Gradient
Potential Habitat Gain			
Lineal (m): 8,796 Spawning Area (sq m): 79 Rearing Area (sq m): 7,763	Distribution Anadromous Resident Only Unknown	Gain Direction (Resider	nt Only):
Potential Species Benefit			
☐ Sockeye / Kokanee	☐ Chinook	Searun Cutthroat	
☐ Pink	✓ Coho	Resident Trout	
☐ Chum	✓ Steelhead	☐ Bull Trout	

WDFW Fish Passage and Diversion Screening Inventory Database Barrier Priority Index Report



B = proportion of fish passage improvement (1, 0.67, 0.33).

H = potential habitat gain (square meters), spawning habitat for sockeye, pink and chum, rearing habitat for the rest.

M= mobility modifier (anadromous = 2, resident = 1).

D = stock condition modifier (critical = 3, depressed = 2, not 2 or 3 = 1).

C= repair cost modifier (<\$100K = 3, \$100K - \$500K = 2, >\$500K = 1).

WDFW Fish Passage and Diversion Screening Inventory Database Image Report - Active

Site ID:	933616				
Latitude:	46.998481	Stream:	unnamed	WRIA:	22
Longitude:	-123.456506	Tributary To:	Wenzel SI	Fish Use Potential:	Yes
Associate	ed Features				
✓ Culv	vert -Culvert Xing	☐ Dam	☐ Natural Barrier	Diversion	







